

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/937,519A  
Source: IFW16  
Date Processed by STIC: 2/9/06

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 02/09/2006

PATENT APPLICATION: US/09/937,519A

TIME: 14:46:08

Input Set : A:\19006007.APP

Output Set: N:\CRF4\02092006\I937519A.raw

2 <110> APPLICANT: KRUPP, GUIDO  
 4 <120> TITLE OF INVENTION: DETECTION OF NUCLEIC ACID AMPLIFIED PRODUCTS  
 6 <130> FILE REFERENCE: 19006.007  
 8 <140> CURRENT APPLICATION NUMBER: 09/937,519A  
 9 <141> CURRENT FILING DATE: 2002-03-05  
 11 <150> PRIOR APPLICATION NUMBER: PCT/EP99/07127  
 12 <151> PRIOR FILING DATE: 1999-09-27  
 14 <150> PRIOR APPLICATION NUMBER: DE 199 15 141.5  
 15 <151> PRIOR FILING DATE: 1999-03-26  
 17 <160> NUMBER OF SEQ ID NOS: 223  
 19 <170> SOFTWARE: PatentIn Ver. 3.3  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 4  
 23 <212> TYPE: RNA  
 24 <213> ORGANISM: Artificial Sequence  
 26 <220> FEATURE:  
 27 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 28 oligonucleotide  
 30 <400> SEQUENCE: 1  
 31 gaaa 4  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 7  
 36 <212> TYPE: RNA  
 37 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 41 oligonucleotide  
 43 <220> FEATURE:  
 44 <221> NAME/KEY: modified\_base  
 45 <222> LOCATION: (5)  
 46 <223> OTHER INFORMATION: a, c, g, u, unknown, or other  
 48 <400> SEQUENCE: 2  
 W--> 49 cuganga 7  
 52 <210> SEQ ID NO: 3  
 53 <211> LENGTH: 14  
 54 <212> TYPE: DNA  
 55 <213> ORGANISM: Artificial Sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 59 oligonucleotide  
 61 <400> SEQUENCE: 3  
 62 tccgagccgg wcgr 14  
 65 <210> SEQ ID NO: 4

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66 <211> LENGTH: 16
67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
72     oligonucleotide
74 <400> SEQUENCE: 4
75 rggctagcha caacga                                16
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 13
80 <212> TYPE: RNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
85     oligonucleotide
87 <400> SEQUENCE: 5
88 ggaaucgaaa cgc                                    13
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 32
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
98     oligonucleotide
100 <220> FEATURE:
101 <221> NAME/KEY: modified_base
102 <222> LOCATION: (24)
103 <223> OTHER INFORMATION: Pyridin-4-one
105 <400> SEQUENCE: 6
W--> 106 gcgtctagcg gaaacgctac tgangagatt cc          32
109 <210> SEQ ID NO: 7
110 <211> LENGTH: 22
111 <212> TYPE: RNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
116     oligonucleotide
118 <400> SEQUENCE: 7
119 gcagcuaugg aaayguuaaa ag                        22
122 <210> SEQ ID NO: 8
123 <211> LENGTH: 40
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
129     Synthetic oligonucleotide
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
133     oligonucleotide

```

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135 <220> FEATURE:
136 <221> NAME/KEY: modified_base
137 <222> LOCATION: (29)
138 <223> OTHER INFORMATION: Pyridin-4-one
140 <400> SEQUENCE: 8
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144 <210> SEQ ID NO: 9
145 <211> LENGTH: 54
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
151     primer
153 <400> SEQUENCE: 9
154 aattctaata cgactcacta taggggtgcta tgtcacttcc ccttggttct ctca      54
157 <210> SEQ ID NO: 10
158 <211> LENGTH: 46
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
164     primer
166 <400> SEQUENCE: 10
167 gaatctcatc agtagcgagt ggggggacat caagcagcca tgcaaa      46
170 <210> SEQ ID NO: 11
171 <211> LENGTH: 28
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
177     Synthetic oligonucleotide
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
181     oligonucleotide
183 <400> SEQUENCE: 11
184 tgaaucgaaa cgcgaaagcg ucuagcgu      28
187 <210> SEQ ID NO: 12
188 <211> LENGTH: 46
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
194     primer
196 <400> SEQUENCE: 12
197 gaatctcatc agtagcgagt ggggggacat caagcagcca tgcaaa      46
200 <210> SEQ ID NO: 13
201 <211> LENGTH: 15
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence

```

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```

205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
207     Synthetic oligonucleotide
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
211     oligonucleotide
213 <400> SEQUENCE: 13
214 tacguagucc gugcu 15
217 <210> SEQ ID NO: 14
218 <211> LENGTH: 13
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
224     primer
226 <400> SEQUENCE: 14
227 gcgtttcgat tcc 13
230 <210> SEQ ID NO: 15
231 <211> LENGTH: 142
232 <212> TYPE: DNA
233 <213> ORGANISM: Human immunodeficiency virus type 1
235 <400> SEQUENCE: 15
236 agtgggggga catcaagcag ctatgcaaay gttaaaagat actatcaatg aggaagctgc 60
237 agaatgggac aggggtacatc cagtacatgc agggcctatt ccaccaggcc agatgagaga 120
238 accaagggga agtgacatag ca 142
241 <210> SEQ ID NO: 16
242 <211> LENGTH: 24
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
248     oligonucleotide
250 <400> SEQUENCE: 16
251 agcagctatg gaaaygttaa aaga 24
254 <210> SEQ ID NO: 17
255 <211> LENGTH: 54
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
261     primer
263 <400> SEQUENCE: 17
264 aattctaata cgactcacta tagggagtgg ggggacatca agcagctatg gaaa 54
267 <210> SEQ ID NO: 18
268 <211> LENGTH: 42
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:

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TIME: 14:46:08

Input Set : A:\19006007.APP

Output Set: N:\CRF4\02092006\I937519A.raw

```

274      Synthetic oligonucleotide
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
278      oligonucleotide
280 <400> SEQUENCE: 18
281 gggagtgggg ggacatcaag cagctatgga aayguuaaaa ga      42
284 <210> SEQ ID NO: 19
285 <211> LENGTH: 24
286 <212> TYPE: DNA
287 <213> ORGANISM: Escherichia coli
289 <400> SEQUENCE: 19
290 taatgtctgg gaaactgcct gatg      24
293 <210> SEQ ID NO: 20
294 <211> LENGTH: 24
295 <212> TYPE: DNA
296 <213> ORGANISM: Escherichia coli
298 <400> SEQUENCE: 20
299 ataactactg gaaacggtag ctaa      24
302 <210> SEQ ID NO: 21
303 <211> LENGTH: 24
304 <212> TYPE: DNA
305 <213> ORGANISM: Escherichia coli
307 <400> SEQUENCE: 21
308 agtcagatgt gaaatccccg ggct      24
311 <210> SEQ ID NO: 22
312 <211> LENGTH: 24
313 <212> TYPE: DNA
314 <213> ORGANISM: Escherichia coli
316 <400> SEQUENCE: 22
317 gtgtagcggg gaaatgcgta gaga      24
320 <210> SEQ ID NO: 23
321 <211> LENGTH: 24
322 <212> TYPE: DNA
323 <213> ORGANISM: Escherichia coli
325 <400> SEQUENCE: 23
326 gctcaggtgc gaaagcgtgg ggag      24
329 <210> SEQ ID NO: 24
330 <211> LENGTH: 24
331 <212> TYPE: DNA
332 <213> ORGANISM: Escherichia coli
334 <400> SEQUENCE: 24
335 ctcgtgttgt gaaatgttgg gtta      24
338 <210> SEQ ID NO: 25
339 <211> LENGTH: 24
340 <212> TYPE: DNA
341 <213> ORGANISM: Salmonella typhimurium
343 <400> SEQUENCE: 25
344 taatgtctgg gaaactgcct gatg      24
347 <210> SEQ ID NO: 26

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/937,519A

DATE: 02/09/2006  
TIME: 14:46:09

Input Set : A:\19006007.APP  
Output Set: N:\CRF4\02092006\I937519A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 5  
Seq#:6; N Pos. 24  
Seq#:8; N Pos. 29  
Seq#:57; N Pos. 1  
Seq#:170; N Pos. 18  
Seq#:171; N Pos. 19  
Seq#:188; N Pos. 24  
Seq#:195; N Pos. 24  
Seq#:204; N Pos. 14,15,16,17,18,19  
Seq#:205; N Pos. 1,2,3,4,5,6  
Seq#:206; N Pos. 24  
Seq#:208; N Pos. 1,2,3,4,5,10,11,12,13  
Seq#:209; N Pos. 1,2,3,4,5,10,13,14,15,16,17  
Seq#:210; N Pos. 1,2,3,4,7,8,9,10,11,12,13,14,15,16,17,18,19,20,25,28,29,30  
Seq#:210; N Pos. 31,32  
Seq#:211; N Pos. 1,2,3,4,25,28,29,30,31,32  
Seq#:212; N Pos. 1,2,3,4,25,28,29,30,31,32  
Seq#:213; N Pos. 1,2,3,4,5,10,11,12,13,14,15,16,17,18,19,20,21,24,25,26,27  
Seq#:213; N Pos. 28  
Seq#:214; N Pos. 1,2,3,4,5,24,25,26,27,28  
Seq#:215; N Pos. 1,2,3,4,9,10,11,12,13  
Seq#:216; N Pos. 1,2,3,4,9,10,11,12,13  
Seq#:217; N Pos. 1,2,3,4,9,10,11,12  
Seq#:218; N Pos. 1,2,3,4,5,6,21,22,23,24,25,26,27  
Seq#:219; N Pos. 1,2,3,4,5,6,23,24,25,26,27,28,29  
Seq#:220; N Pos. 1,2,3,4,5,6  
Seq#:221; N Pos. 1,2,3,4,5,10,11,12,13,14,15,16,17  
Seq#:222; N Pos. 1,2,3,4,5,6,21,22,23,24,25  
Seq#:223; N Pos. 29

## VERIFICATION SUMMARY

DATE: 02/09/2006

PATENT APPLICATION: US/09/937,519A

TIME: 14:46:09

Input Set : A:\19006007.APP

Output Set: N:\CRF4\02092006\I937519A.raw

L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0  
L:1659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:170 after pos.:0  
L:1673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:171 after pos.:0  
L:1831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:0  
L:1899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195 after pos.:0  
L:1995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:0  
L:2013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:0  
L:2031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:0  
L:2071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:0  
L:2103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0  
L:2136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:0  
L:2168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:211 after pos.:0  
L:2200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:212 after pos.:0  
L:2228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:213 after pos.:0  
L:2251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:0  
L:2274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215 after pos.:0  
L:2297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:216 after pos.:0  
L:2320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:217 after pos.:0  
L:2343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:218 after pos.:0  
L:2366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:219 after pos.:0  
L:2384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220 after pos.:0  
L:2407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:221 after pos.:0  
L:2430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:0  
L:2448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:223 after pos.:0